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NOTICE OF ALLOWANCE AND FEE(S) DUE

2292 7590 04/09/2009 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747 EXAMINER

COVINGTON, RAYMOND K

ART UNIT PAPER NUMBER

1605

DATE MAILED: 04/09/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTO	ORNEY DOCKET NO.	CONFIRMATION NO.
10/572,636	03/17/2006	Hyun-Ik Shin		15990316PUS1	3416
TITLE		ENTION: PROCESS	FOR		PARING
7-CHLORO-1-CYCLOPRO	OPYL-6-FLUORO-4-OXO-1	1,4-DIHYDRO-1,8-NAPHTHYRIDINE-3-CARB	DXYLIC AC	ID	

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further e indicated unless correcte maintenance fee notificat	d below or directed oth	or transmitting the ISS ig the Patent, advance nerwise in Block 1, by	SUE FEE and PUBLICAT orders and notification of a (a) specifying a new corre	pondence address;	and/or (b) indicating a sep	arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fee	s) Transmittal. This	certificate cannot be used	or domestic mailings of the for any other accompanying ent or formal drawing, must
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BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			I he Stat add tran	Cert reby certify that thi es Postal Service w essed to the Mail smitted to the USPI	ificate of Mailing or Tran s Fee(s) Transmittal is bein ith sufficient postage for fir Stop ISSUE FEE address O (571) 273-2885, on the	smission g deposited with the United st class mail in an envelope above, or being facsimile date indicated below.
						(Depositor's name)
						(Signature)
			L			(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/572,636	03/17/2006		Hyun-Ik Shin		15990316PUS1	3416
TITLE 7-CHLORO-1-CYCLOPI	OF ROPYL-6-FLUORO-4-	INVENTION: DXO-I,4-DIHYDRO-I	PROCESS ,8-NAPHTHYRIDINE-3-C		OR PR ACID	EPARING
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/09/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
COVINGTON,	RAYMOND K	1625	546-123000			
"Fee Address" indi PTO/SB/47; Rev 03-0: Number is required. 3. ASSIGNEE NAME AT	ondence address (or Cha 1/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident n in 37 CFR 3.11. Comp	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a single registered attorney or 2 registered attorney or 2 registered patent atto listed, no name will be strike to the printing of the poor The PATENT (print or ty) ee data will appear on the p OT a substitute for filing an (B) RESIDENCE (CITY)	3 registered patent rely, e firm (having as a sgent) and the name meys or agents. If r printed. ec) stent. If an assigne assignment.	attorneys I	document has been filed for
Please check the appropri		-				oup entity Government
4a. The following fee(s) are submitted: I ssue Fee Publication Fee (No small entity discount permitted)			4b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car	d. Form PTO-2038	is attached.	
Advance Order - # of Copies				eficiency, or credit any an extra copy of this form).		
	SMALL ENTITY state	is. See 37 CFR 1.27.			LENTITY status. Sec 37 (
NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	uired) will not be accept tes Patent and Tradema	ted from anyone other than t rk Office.	he applicant; a regis	tered attorney or agent; or t	he assignee or other party in
Authorized Signature				Date		
Typed or printed name				Registration N		
This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu- irginia 22313-1450. DC 13-1450.	FR 1.311. The informat U.S.C. 122 and 37 CFI USPTO. Time will va- rden, should be sent to O NOT SEND FEES OF	tion is required to obtain or r R 1.14. This collection is est ry depending upon the indiv the Chief Information Office R COMPLETED FORMS To	etain a benefit by the imated to take 12 n idual case. Any con r, U.S. Patent and D'THIS ADDRESS.	te public which is to file (an inutes to complete, includi imments on the amount of t frademark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete sartment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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10/572,636	03/17/2006	Hyun-Ik Shin	15990316PUS1	3416
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BIRCH STEWART KOLASCH & BIRCH			COVINGTON,	RAYMOND K
PO BOX 747			ART UNIT	PAPER NUMBER
FALLS CHURCH, VA 22040-0747			1625	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 496 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 496 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/572,636	SHIN ET AL.	
Examiner	Art Unit	
Paymand Cavington	1625	

The MAILING DATE of this communication appears on the All claims being allowable, PROSECUTION ON THE MERITS IS (OR REM herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other a NOTICE OF ALLOWABILITY is NOT A GRANT OF PATENT RIGHTS. Tof the Office or upon petition by the applicant. See 37 CFR 1.313 and MPE	MAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initiative
 This communication is responsive to <u>12/23/08</u>. 	
 The allowed claim(s) is/are <u>1-10</u>. 	
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been rec 2. ☐ Certified copies of the priority documents have been rec 3. ☐ Copies of the certified copies of the priority documents International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	peived. belived in Application No have been received in this national stage application from the munication to file a reply complying with the requirements
A SUBSTITUTE OATH OR DECLARATION must be submitted. Note INFORMAL PATENT APPLICATION (PTO-152) which gives reason	
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be subn (a) ☐ including changes required by the Notice of Draftsperson's Pate 1) ☐ hereto or 2) ☐ to Paper No./Mali Date (b) ☐ including changes required by the attached Examiner's Amendr Paper No./Mail Date ☐ Identifying indicia such as the application number (see 37 CFR 1.84(c)) sho	ent Drawing Review (PTO-948) attached ment / Comment or in the Office action of build be written on the drawings in the front (not the back) of
each sheet. Replacement sheet(s) should be labeled as such in the header 6. DEPOSIT OF and/or INFORMATION about the deposit of BIC attached Examiner's comment regarding REQUIREMENT FOR THE	DLOGICAL MATERIAL must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal Patent Application 6. Interview Summary (PTO-413), Paper No./Mail Date 3/25/09. 7. Examiner's Amendment/Comment 8. Examiner's Statement of Reasons for Allowance 9. Other
/R. C./ Examiner, Art Unit 1625	/Janet L. Andres/ Supervisory Patent Examiner, Art Unit 1625